

Sustainability is our responsibility. At DyStar, our products and services help customers worldwide reduce costs, shorten lead times and meet stringent quality and ecological specifications.

econfidence[®]
from DyStar[®]

DyStar



Bangladesh
DyStar Singapore Pte. Ltd.
(Liaison Office)
257 (2nd Floor, B2)
Navana Ville Akbar, Road No :19/A
New DOHS, Mohakhali, Dhaka-1206
Tel: +55 11 55 08 36 84
Fax: +55 11 55 08 36 23
DyStar.Bangladesh@DyStar.com

Brazil
DyStar Indústria e Comércio
de Produtos Químicos Ltda.
Av. Eng° Luis Carlos Berrini, 1645
11° andar, Cidade Monções
CEP 04571-011. São Paulo / SP
Tel: +55 11 55 08 36 84
Fax: +55 11 55 08 36 23
DyStar.Brazil@DyStar.com

China/Hong Kong
DyStar China Ltd.
Room 1802B-8, 18/F
Yen Sheng Centre, 64 Hoi Yuen Road
Kwun Tong, Kowloon, Hong Kong
Tel: +852 29 55 33 88
Fax: +852 29 55 11 88
DyStar.China@DyStar.com

China/Shanghai
DyStar (Shanghai) Trading Co. Ltd.
6F, Building No. 20
201 Min Yi Road, Songjiang District
Shanghai 201612
Tel: +86 21 37 74 63 38
Fax: +86 21 37 74 63 39
DyStar.China@DyStar.com

Egypt
DyStar Kimya Sanayi Ve Ticaret Ltd.
8, Abdel Rahman Ibn Ouf Str
Heliopolis, Cairo
Tel: +20 2 26 24 35 78
Fax: +20 2 26 24 35 81
DyStar.Egypt@DyStar.com

France
DyStar France s.a.r.l.
15, rue des Entrepreneurs
Lieu dit « Rue des Verts Prés »
59700 Marcq en Baroeul
Tel: +33 3 20 42 31 34
Fax: +33 3 20 42 31 46
DyStar.France@DyStar.com

Germany
DyStar Colours Distribution GmbH
Industriepark Hoechst, Bldg. B 598
65926 Frankfurt am Main
Tel: +49 69 21 09 0
Fax: +49 69 21 09 20 00
DyStar.Germany@DyStar.com

India
DyStar India Pte. Ltd.
Plot No. R-855
TTC Industrial Area
Rabale, P.O. Ghansoli
Navi Mumbai - 400 701
Tel: +91 22 61 41 90 00
Fax: +91 22 61 41 90 10
DyStar.India@DyStar.com

Global Headquarters - Singapore

DyStar Singapore Pte Ltd
1A International Business Park
#10-01, Singapore 609933
Tel: +65 66 71 28 00
Fax: +65 66 59 13 28
DyStar.Singapore@DyStar.com
www.DyStar.com

Indonesia
PT. DyStar Colours Indonesia
22nd Floor, Menara Global Building
Jln. Gatot Subroto Kav. 27
Jakarta 12930
Tel: +62 21 527 05 50
Fax: +62 21 527 05 20
DyStar.Indonesia@DyStar.com

Italy
DyStar Italia S.r.l.
Via delle Groane 126
20024 Garbagnate Milanese (MI)
Tel: +39 02 99 44 01
Fax: +39 02 99 02 83 91
DyStar.Italy@DyStar.com

Japan
DyStar Japan Ltd.
7-20, Azuchimachi I-chrome
Chuo-ku, Osaka 541-0052
Tel: +81 6 62 63 66 72
Fax: +81 6 62 63 66 91
DyStar.Japan@DyStar.com

Korea
DyStar Korea Ltd.
Jin Wha Bldg. 2nd and 3rd fl.
#756-1, Gojan-dong Danwon-gu
Ansan City Kyunggi-do, South Korea
Tel: +82 2 34 52 78 78
Fax: +82 2 34 52 78 76
DyStar.Korea@DyStar.com

Mexico
DyStar de México S. de R.L. de C.V.
Av. Insurgentes Sur 1685
Int. 501-504 Col. Guadalupe Inn
Del Alvaro Obregón CP
01020 México D.F.
Tel: +52 55 53 22 51 00
Fax: +52 55 56 62 56 18
DyStar.Mexico@DyStar.com

Pakistan
DyStar Pakistan (Pvt) Ltd.
217, Dehli Mercantile Co-operative
Housing Society, Sirajudulla Road
Karachi - 74800
Tel: +92 21 34 55 69 95-7
Fax: +92 21 34 55 57 58
DyStar.Pakistan@DyStar.com

Portugal
DyStar Anilinas Têxteis
Unipessoal, Lda.
Rua Manuel Pinto de Azevedo, 626
4100-320 Porto
Tel: +351 22 615 31 80
Fax: +351 22 615 31 90
DyStar.Portugal@DyStar.com

South Africa
DyStar Boehme Africa (Pty) Ltd.
27 Sheffield Road
Willowton, Pietermaritzburg, 3201
P.O. Box 1845, Pietermaritzburg, 3200
Tel: +27 33 390 81 00
Fax: +27 33 390 23 18
DyStar.Boehme.Africa@DyStar.com

Spain
DyStar Hispania, S.L.
Sociedad Unipersonal
c/Famadas, 37-57
08907 Hospitalet de Llobregat
Tel: +34 93 264 04 40
Fax: +34 93 264 04 58
DyStar.Spain@DyStar.com

Taiwan
DyStar Taiwan Ltd.
5th Fl., No. 196, Sec. 2
Chien Kuo N. Road, 104 Taipei
Tel: +886 2 25 16 37 77
Fax: +886 2 25 16 81 99
DyStar.Taiwan@DyStar.com

Thailand
DyStar Thai Ltd.
150 Moo 8, Soi Praekasarn
Sukhumvit Road
T. Taiban, A. Muang
Samutprakarn 10280
Tel: +66 2 701 48 05-8
Fax: +66 2 701 32 59, 701 48 09
DyStar.Thai@DyStar.com

Turkey
DyStar Kimya San. Tic. Ltd. Sti.
Mecidiye Mahallesi
Cenap Sahabettin Sok. No.24
34718 Kosuyolu - Kadiköy / Istanbul
Tel: +90 216 544 15 00
Fax: +90 216 339 90 61
DyStar.Turkey@DyStar.com

United Kingdom
DyStar UK Ltd.
c/o Rhodia UK Ltd.
Burrwood Way, Holywell Green
Halifax, West Yorkshire HX4 9BH
Tel: +44 14 22 31 37 20
Fax: +44 14 22 31 37 21
DyStar.UK@DyStar.com

USA
DyStar L.P.
9844-A Southern Pine Boulevard
Charlotte, NC 28273
Tel: +1 704 561 30 00
Fax: +1 704 561 30 05
DyStar.USA@DyStar.com

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Dianix Rubine[®] XFS

Value for high fastness reds and rubines together with econfidence



DyStar

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FEATURES

1

Features and benefits



- ✓ Replacement for Dianix Rubine XFN with similar shade, strength & flare under different light sources and superior fastness levels particularly on polyester/elastane blends
- ✓ Combines high wet fastness and good sublimation fastness on polyester and blends, particularly on polyester/elastane blends
- ✓ Good build-up at 130 °C on polyester and blends
- ✓ Universal application in exhaust, continuous and printing with high level of wet fastness
- ✓ Cost optimization through resource management
- ✓ Excellent compatibility with other Dianix XF dyes for Right-First-Time dyeing of ternary shades
- ✓ The cost effective offer in the rubine shade areas when high wet fastness is required

ECO

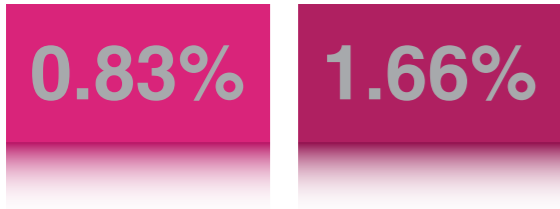
2

Eco profile

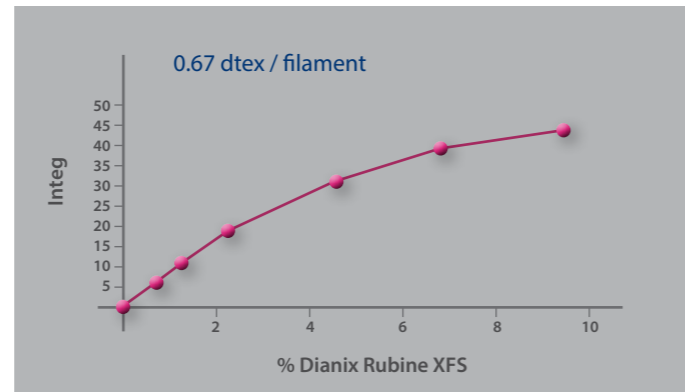
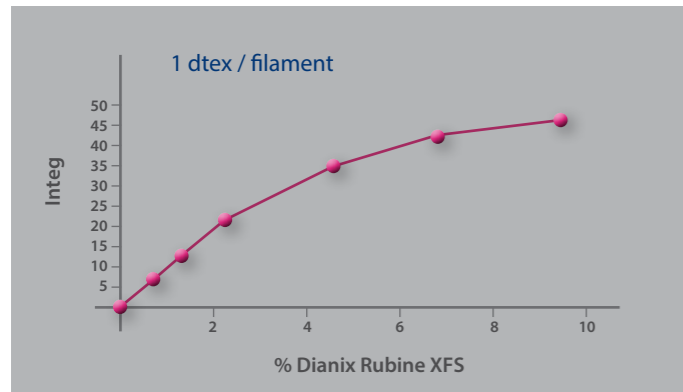
- ✓ No MAK amines generated by reductive cleavage according to EU Directive 2002/61/EEC and German Consumer Goods Ordinance
- ✓ No allergenic disperse dyes according to Oeko-Tex Standard 100
- ✓ No restricted polychlorinated aromatic compounds above acceptable trace level
- ✓ AOX free
- ✓ Heavy metal content well below ETAD limit value guideline
- ✓ Full compliance with Oeko-Tex Standard 100
- ✓ Meets all Restricted Substance Lists (RSL)



Technical profile



Build-up on polyester microfibre



Wet fastness

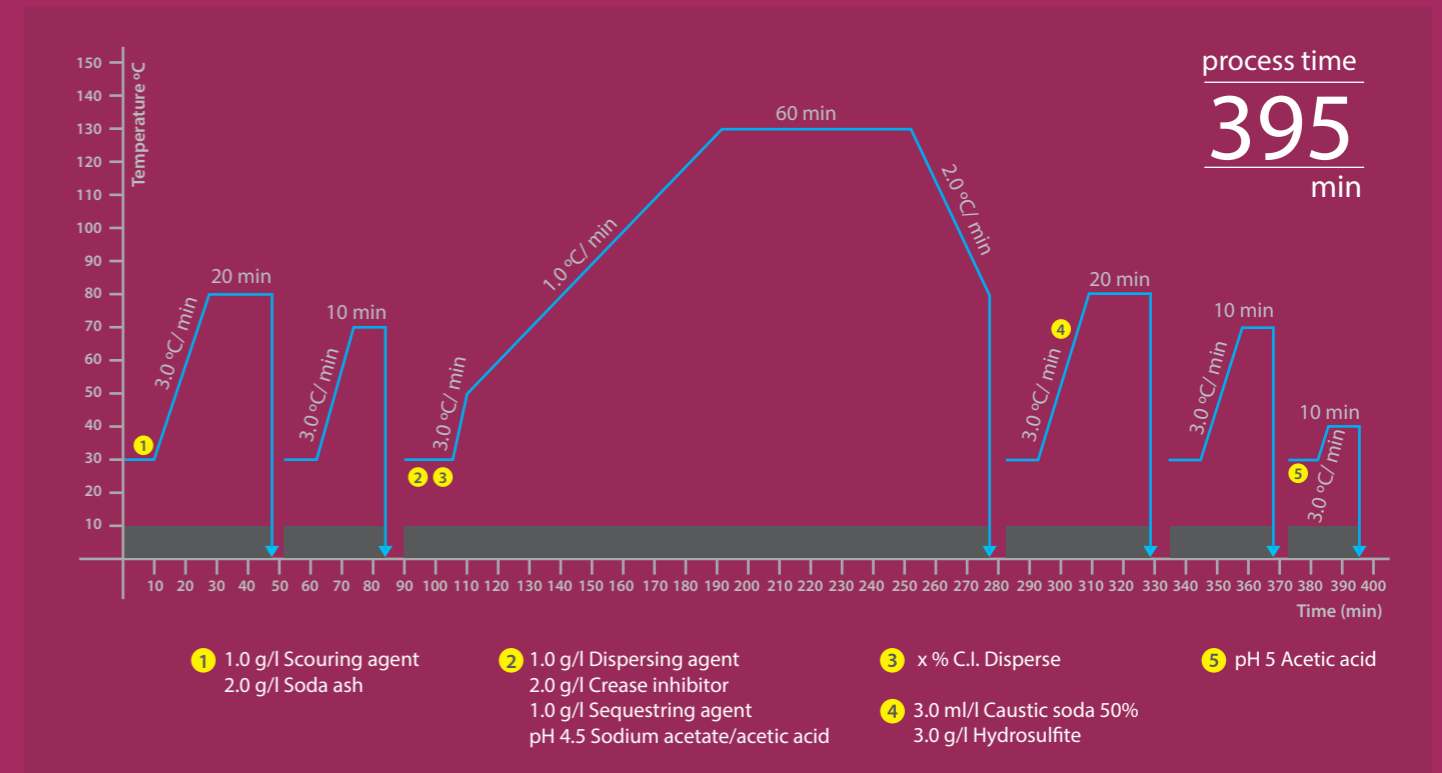
Polyester 75d/72f 1.66% Dianix Rubine XFS	Fastness to	Polyester/elastane 82/18 1.66% Dianix Rubine XFS
	washing adidas 40 °C	
	washing Nike 50 °C	
	washing AATCC IIA 49 °C	
	water, severe ISO 105-E01	

Sublimation fastness on 75d/72f

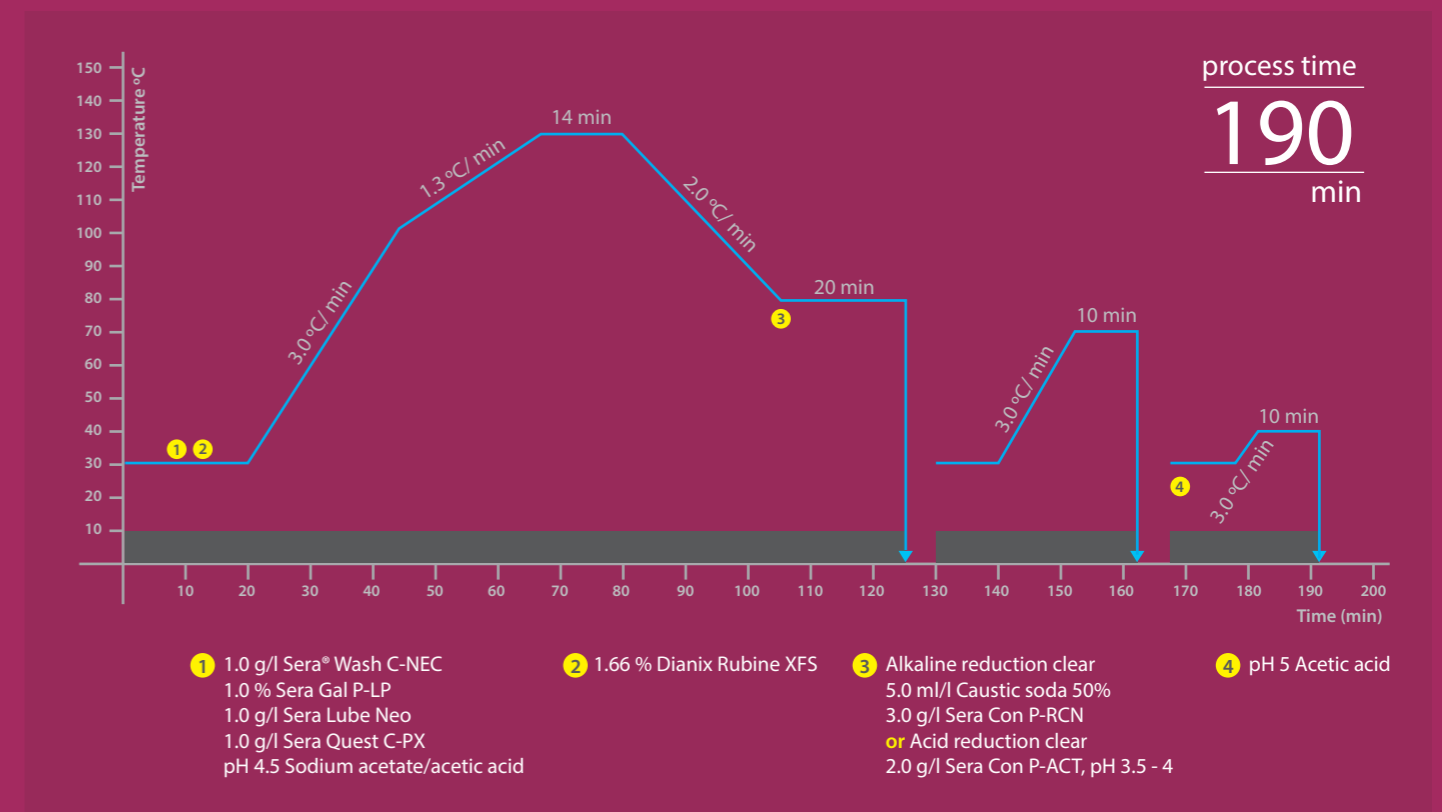
Polyester	Cotton	Conditions
		180 °C for 30 s
		210 °C for 30 s

Resource Management and Cost Savings

Conventional processing for medium to dark shades



Optimized processing with scour/dyeing, Optidye[®] PES calculation and reductive clearing in dyeing bath



Suitability

Depth of shade	HT		Carrier	Printing		Discharge Printing			
	Yarn	Piece		HTS	PS	Ground		Illumination	
						Alkali	SnC ₁₂	Alkali	SnC ₁₂
Pale	++	++	-	+	-	++	++	-	-
Medium	++	++	-	+	-	++	++	-	-
Dark	+	++	-	+	-	++	++	-	-

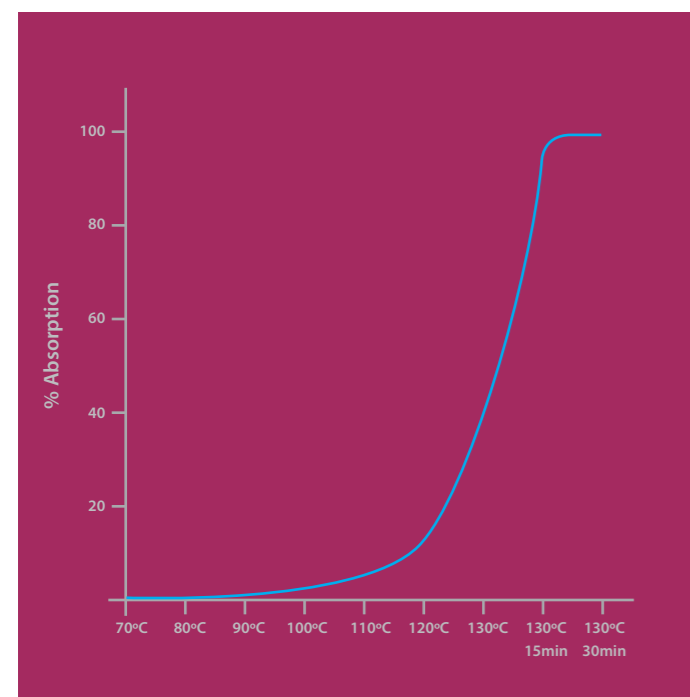
Depth of shade	HT(PES/CO)		Continuous	PES/WO		Acetate	Triacetate	Polyamide
	Yarn	Piece		PES/CO	Yarn			
Pale	++	++	++	-	-	-	-	-
Medium	++	++	++	-	-	-	-	-
Dark	++	++	++	-	-	-	-	-
Optimum temp.			220 °C					

Dye Characteristic

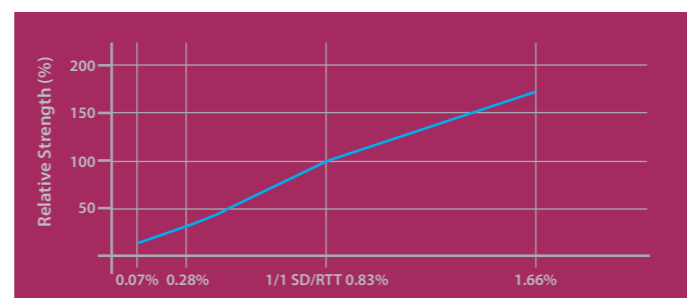
Level uptake	3	
Barré coverage	moderate	
Sensitivity to metal ions	Cu	5
	Fe	5
pH stability	4.0 - 5.0	

Artificial Light	
Tungsten	TL84
Yellower	Yellower

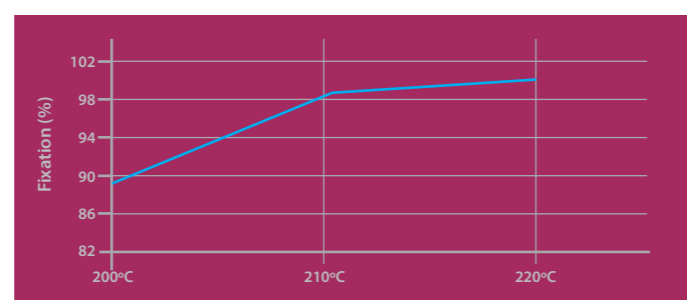
Rate of Dyeing Curve



Build-up



Temperature Dependency



Fastness Properties on Polyester

1/1 SD, reduction cleared postset 180 °C / 30 seconds	0.07%	0.28%	1/1 SD 0.83%	1.66%	
Light Fastness	Xenon	4-5	5	5-6	6
	Carbon Arc	5-6	6	7	7
Sublimation Fastness 180°C	5	5	5	4-5	

1/1 SD, reduction cleared postset 180 °C / 30 seconds	E	CA	CO	PA	PES	PAN	WO
Water, severe	5	4	4-5	3-4	4-5	5	5
Washing C06/B2S	5	4	4-5	4	4-5	5	5
Washing C06/C2S	5	3	4-5	3-4	4	5	5
Washing AATCC IIA	5	3	4-5	3-4	4	5	5
Perspiration, alkaline	5	4	4-5	4	4-5	5	5
Perspiration, acid	5	3-4	4-5	3-4	4	5	5
Rubbing, dry	4-5						
Rubbing, wet	5						

Fastness Properties on Polyester/Cotton

PES/CO 50/50 1/1 SD postset 180 °C / 30 seconds	E	CA	CO	PA	PES	PAN	WO
Water, severe	alkali cleared	5	3-4	4-5	3-4	4	4-5
	reduction cleared	5	3-4	4-5	4	4	5
Washing C06/B2S	alkali cleared	5	3-4	4-5	3-4	3-4	4-5
	reduction cleared	5	3-4	4-5	4	4	5
Washing C06/C2S	alkali cleared	5	3-4	4-5	3-4	3-4	4-5
	reduction cleared	5	3-4	4-5	4	4	5
Washing AATCC IIA	alkali cleared	5	3	4-5	3-4	4	4-5
	reduction cleared	5	3	4-5	3-4	4	5
Perspiration, alkaline	alkali cleared	5	3-4	4-5	3-4	4-5	4-5
	reduction cleared	5	3-4	4-5	3-4	4-5	4-5
Perspiration, acid	alkali cleared	5	3-4	4-5	3-4	4	4-5
	reduction cleared	5	3-4	4-5	3-4	4	4-5
Rubbing, dry	alkali cleared	5					
	reduction cleared	5					

Other Properties

	Staining in fibre blends			Dyeing in fibre blends		
	Cotton 130 °C	Wool 105 °C	Acrylic 105 °C	Triacetate 120 °C	Polyamide 120 °C	
Rinsed	3	1	2	2	2	
Reduction cleared	4-5	4	3-4	2	2	